

MAY 01 1981

BELL TELEPHONE LABORATORIES, INCORPORATED

3- 31

COMMON SYSTEMS
FOR USE WITH NO. 3 ESS
ARRANGED WITH 2-WIRE FEATURES
COMMON TAPE PAGING MONITOR
(CPAGM)

THE CONTENT OF THIS MATERIAL IS PROPRIETARY AND CONSTITUTES A TRADE SECRET. IT IS FURNISHED PURSUANT TO WRITTEN AGREEMENTS OR INSTRUCTIONS LIMITING THE EXTENT OF DISCLOSURE. ITS FURTHER DISCLOSURE IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF ITS OWNER, WESTERN ELECTRIC COMPANY, INCORPORATED, IS PROHIBITED.

ISSUE 5
02/06/81

AT&TCO
SPCS

PR-1C955-50
31 PAGES

PRINTED IN U.S.A.



SECTION DICTIONARY

NUMBER	NAME	MAXIMUM	ORIGIN	TYP	ADDRESS-MODIFICATION
01	CPAGM	0000407		C	
02	CPATCH	0000000		C	
03	CPATCH1	0000000		C	
04	CPATCH2	0000412		C	
05	CPATCH3	0000000		C	
06	CPATCH7	0000000		C	
07	TFAPCH2	0000000		C	
08	TPATCH	0000000		C	

COMMON TAPE PAGING MONITOR

PR-1C955-50

00:37:15 02/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM

ISSUE 05 PAGE A1



VERSION W77D OF SWAP; VERSION

OF EPL

0:37:15 2/06/81 ****

CPAGM

W77D

0007355
0007355
0007355

```

01 DBNAM  NO33E3I3.OFF.DATABASE
02 RELNAM NO3ESS
03 GETLIB LIBRARY, MEMBER=MOPTBL
04 GETLIB LIBRARY, MEMBER=SYSSMAC
05 GETLIB LIBRARY, MEMBER=SYSSYM
06 GETLIB LIBRARY, MEMBER=PATCH2
07 FIRSTOPTSS
08 VERSION SACC, FIELD, ESS2E
09 PATCHINIT
10 NO33E3I3.OFF.OPMS(D) DECK
11 DSQUAL NO33E3I3
12 LISTING N, CRUNCH=Y, SYSOUT=M
13 #####
14 ##
15 ## UNIX ID = NO3PAG
16 ##
17 #####
18 #####
19 ##
20 ##### pid date time rel
21 ##
22 ##### cpagm 1/24/81 18:02:39 7.1.1.1
23 ##
24 #####
25 NAME CPAGM

```

29 ## The following is a list of the valid csects for program CPAGM

0007355

31 CPAGM CSECT

34 ## The following csects are necessary for patching

0111432
0112562
0114107
0115073
0121236

```

36 CPATCH CSECT
37 CPATCH1 CSECT
38 CPATCH2 CSECT
39 CPATCH3 CSECT
40 CPATCH7 CSECT

```

0116774

42 TFAPCH2 CSECT

0600000

44 TPATCH CSECT

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM

ISSUE 05 PAGE 1

D01

0:37:15 2/06/81 ****

CPAGM

W77D

0007355

01 GETLIB MEMBER=TAPSYM
02 GETLIB MEMBER=TAPMAC
03 GETLIB MEMBER=GPMAC
04 GETLIB MEMBER=CCSYM
05 GETLIB MEMBER=TTYMAC
06 GETLIB MEMBER=TTYSYM
07 GETLIB MEMBER=BSAJMAC
08 GETLIB MEMBER=CTVTAB
D9 CPAGM CSECT

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 2

E01

0:37:15 2/06/81 ****

CPAGM W77D

01	PUBLIC	EXPAGREQ
02	PUBLIC	NAPCHK
03	PUBLIC	OP
04	PUBLIC	PAGMON
05	PUBLIC	PAGEUN

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 3

0:37:15 2/06/81 ****

CPAGH W77D

01 BLHMA EXTERN MSFCLVL
02 BLHMA EXTERN TEMPINH_
03 CBLM EXTERN WAIT
04 CYSUB EXTERN CLR_WRDS
05 CYSUB EXTERN MOVST
06 CTAPH EXTERN BLKDATA
07 CTSD EXTERN PAGEMAP
08 CTSD EXTERN PLB
09 LAYOUT EXTERN HGAREA
10 LAYOUT EXTERN I_OBUF
11 MASACS EXTERN MAXVOS
12 SEG000 EXTERN SEGTAB

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGH ISSUE 05 PAGE 4

0:37:15 2/06/81 ****

LAYOUTS

CPAGM W77D

01 PCB	LAYOUT	4,FLTBK	# PAGE MONITOR CONTROL BLOCK
02 RTNH4	ITEM	4	#RETURN ADDR. HIGH BITS
03 OP	ITEM	1	
04 WRDCNT	ITEM	11	#COUNT OF WORDS MOVED
05 RTNL16	ITEM	16	#RETURN ADDR. LOW BITS
06 ROSAVE	ITEM	16	#R0 SAVE AREA
07 R1SAVE	ITEM	16	#R1 SAVE AREA
08	LOEND		

```

PCB
001 -003- 02 #
      WRDCNT
      COUNT OF WORDS MOVED
      RTNL16
      RETURN ADDR. LOW BITS
      ROSAVE
      R0 SAVE AREA
      R1SAVE
      R1 SAVE AREA
01
02
03
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
  
```

27 HEADER	LAYOUT	2,FLTBK	# HEADER ON NONRESIDENT PROGRAM TAPE BLOCKS
28	ITEM	ADDR	# BASE ADDRESS OF RECORD
29 RCRDLG	ITEM	12	# LENGTH OF RECORD
30	LOEND		

```

HEADER
001 -003- 31 #
      RCRDLG
      LENGTH OF RECORD
      BASE ADDRESS OF RECORD
01
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
  
```

43 SEGTABLE	LAYOUT	2,FLTBK	# DATA IN SEGMENT TABLE ENTRY
44	ITEM	4	
45	ITEM	4	# XXXXXXXXXXXXXXXXXXXXXXXXXXXX
46 RGTBRO	ITEM	8	# RIGHT BROTHER (SEGMENT NO.)
47 LOGBLKAD	ITEM	16	# LOGICAL BLOCK ADDRESS ON PAGEMON FILE
48	LOEND		

```

SEGTABLE
001 -003- 49 #
      RGTBRO
      RIGHT BROTHER (SEGMENT NO.)
      LOGBLKAD
      LOGICAL BLOCK ADDRESS ON PAGEMON FILE
01
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
  
```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 5

0:37:15 2/06/81 ****

LAYOUTS

CPAGM

W77D

01 ENTAB LAYOUT 2,FLTBK
 02 ITEM ADDR
 03 ITEM 4
 04 SEGNO ITEM 6
 05 LOEND

DATA IN ENTAB ENTRY
 # PAGING AREA ADDRESS
 # XXXXXXXXXXXXXXXXXXXXXXXX
 # SEGMENT NO.

ENTAB	-003- 06 #		
00	SEGNO		
01	SEGMENT NO.	XXXXXXXXXXXXXXXXXXXXXXXX	PAGING AREA ADDRESS
	15	14	13
	12	11	10
	9	8	7
	6	5	4
	3	2	1
	0		

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 6

0:37:15 2/06/81 ****

LAYOUTS

CPAGM W77D

0007355

01 EXPAGREQ
 02 # THIS ENTRY POINT INTO THE PAGING MONITOR IS PROVIDED FOR
 03 # EXPLICIT PAGE REQUESTS. ENTRY IS MADE VIA A NORMAL CALL AND
 04 # R1 MUST POINT TO THE SEG FUNCTION ENTRY WHICH CONTAINS THE
 05 # SEGMENT NUMBER AND ADDRESS. A NORMAL RETURN IS EXECUTED. A SEG.
 06 # NUMBER 0 INDICATES THAT THE PROGRAM IS RESIDENT.

0007355

0007355 01 000000 171420 -----
 0007356 01 000001 031040 043076 CTSD
 0007360 01 000003 044002 -----
 0007361 01 000004 044023 -----
 0007362 01 000005 040440 -----
 0007363 01 000006 003442 177760
 0007365 01 000010 055002 ----- 0007367
 0007366
 0007366 01 000011 056420 -----

10 BEGIN
 -002- 11 HA
 12 LAL R2,PCB,RAO
 13 ST R0,N(R0SAVE)(RAO) # SAVE R0 AND R1
 14 ST R1,N(R1SAVE)(RAO)
 15 L R2,D(CR1)
 16 NI R2,MSK(12,4) # CHECK IF PROGRAM IS RESIDENT
 17 BNC PAGMUST
 18 RETURN
 -001- 19 BTSAG

0007367

0007367 01 000012 110454 -----
 0007370 01 000013 072060 -----
 0007371 01 000014 072101 -----
 0007372 01 000015 002060 000017
 0007374 01 000017 002101 177777
 0007376 01 000021 053015 ----- 0007413

21 PAGMUST
 22 RLN R2,S(SEGNO)-4 # KEEP OLD 8 BIT SEGMENT NO. FORMAT
 23 GN R3,0
 24 GN R4,1
 25 STM R3,N(RTNH4)(RAO),N(RTNH4) # SAVE RETURN ADDRESS
 26 STM R4,N(RTNL16)(RAO),N(RTNL16)
 27 B FINDPAGE # USE NORMAL PAGING ROUTINES FROM HERE.

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 7

PAGING MONITOR

0:37:15 2/06/81 ****

PAGMON NORMAL PAGING ENTRY POINT

CPAGM W77D

0007377

01 PAGMON
 02 # NORMAL ENTRY POINT FOR PAGING OPERATIONS INITIATED BY 'CALL' OR
 03 # 'BL' INSTRUCTIONS. ENTRY IS MADE VIA THE CALL ENTRY IN THE ENTAB
 04 # TRANSFER VECTOR TABLE.

0007377
 0007377 01 000022 171420 -----
 0007400 01 000023 031040 043076 CTSD
 0007402 01 000025 044002 -----
 0007403 01 000026 044023 -----
 0007404 01 000027 072340 -----
 0007405 01 000030 072361 -----
 0007406 01 000031 040440 -----

-002- 08 BEGIN
 09 HA
 10 LAL R2,PCB,RA0
 11 ST R0,N(R0SAVE)(RA0) # SAVE R0 AND R1 FOR CLIENT.
 12 ST R1,N(R1SAVE)(RA0) # GET ADDRESS OF SEG. NUMBER AND
 13 GN R14,0 # GET SEG. NUMBER AND 4 HIGH BITS OF TARGET
 14 GN R15,1 # TARGET ADDRESS.
 15 L R2,0(RA1) # GET SEG. NUMBER AND 4 HIGH BITS OF TARGET
 ADDRESS.
 17 L R3,1(RA1) # GET LOW 16 BITS OF TARGET ADDRESS.
 18 STH R2,N(RTNH4)(RA0),M(RTNH4) # STORE TARGET ADDRESS AWAY
 19 ST R3,N(RTNL16)(RA0)
 20 FINDPAGE
 21 TAKEOUT 1 # 3E790279
 -001- 22 LR 0,0
 23 LRM R6,R2,M(SEGNO)
 24 RRN R6,S(SEGNO) # POSITION R6 FOR MAP MODULE.
 25 SN R6,1
 26 # END OF PAGMON ENTRY MODULE

0007407 01 000032 040461 -----
 0007410 01 000033 002040 000017
 0007412 01 000035 044061 -----
 0007413
 0007413
 0007413 01 000036 106000 -----
 0007414 01 000037 016542 177400
 0007416 01 000041 010550 -----
 0007417 01 000042 004157 -----

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 8

PAGING MONITOR

0:37:15 2/06/81 ****

MAP TABLE ROUTINES

CPAGM W77D

0007420

01 MAPSET

02 # THIS ROUTINE WILL TAKE A PAGE NUMBER AND PREPARE THE PAGE
 03 # MAP FOR A FUTURE SEARCH TO CREATE THE BRANCH OF PAGES REQUIRED
 04 # FOR EXECUTION OF THE REQUESTED PAGE. A 16 WORD TABLE HOLDS THE
 05 # CURRENT STANDING OF THE PAGING BUFFER. EACH BIT REPRESENTS A
 06 # GIVEN PAGE.

08 # ENTRY R6 = SEGMENT NUMBER MINUS ONE

09 # EXIT UPDATED PAGING BUFFER MAP.

0007420 01 000043 131400 043056 CTSD

11 LAL R0,PAGEMAP,RA1 # SET UP PAGE MAP BASE.

0007422 01 000045 016444 000360

12 LRM R2,R6,MSK(4,4) # SELECT WORD INFORMATION

0007424 01 000047 006206 -----

13 LR R8,R6

0007425 01 000050 005202 -----

14 SR R8,R2

0007426 01 000051 010444 -----

15 RRN R2,4 # GET RID OF WORD INFORMATION
DIVIDE BY 16. R2 NOW REPRESENTS INDEX INTO
PAGEMAP.

0007427 01 000052 003000 -----

17 ZR R0 # PREPARE FOR MASK GENERATION.

0007430 01 000053 043462 -----

18 LAX R3,R2(RA1) # OBTAIN WORD FROM MAP.

0007431 01 000054 024470 -----

19 TBR R3,R8 # IS SEG ALREADY IN

0007432 01 000055 054205 ----- 0007637

20 BC GETOPAGE # DO NOT TOUCH MAP

21 # THE BITS BELOW THIS PAGE MUST ALL BE ZEROED. THE BITS ABOVE

22 # THIS PAGE MUST BE LEFT UNCHANGED FOR A FUTURE SEARCH.

23 MASKGEN

0007433

24 SBR R0,R8 # GENERATE ANDING MASK IN R0

0007433 01 000056 126410 -----

25 BX R8,MASKGEN

0007434 01 000057 036200 007433 0007433

26 NR R3,R0 # R3 NOW CONTAINS CORRECT PAGEMAP WORD.

0007436 01 000061 014060 -----

27 ST R3,0(RA1)

0007437 01 000062 044460 -----

28 LI R0,TBLSIZ(PAGEMAP)-1 # NUMBER OF WORDS IN PAGEMAP-1

0007440 01 000063 003401 000017 CTSD

29 SR R0,R2 # REMAINDER IN R0 INDICATES THE WORDS BELOW
THIS PAGE.

0007442 01 000065 005002 -----

31 LA R1,1(RA1) # SET UP R1 FOR CLEARING ROUTINE

0007443 01 000066 041421 -----

32 CALL CLR_WRDS # TABLE NOW READY.

0007444

33 BSAI CLR_WRDS # SUBROUTINE CLR_WRDS IS IN PROGRAM CTSUB

0007444 01 000067 073031 -----

-001- 34 # THIS ENDS MAPSET MODULE

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM

ISSUE 05 PAGE 9

PAGING MONITOR

0137:15 2/06/81 ****

LOAD PAGE ROUTINE

CPAGM

W77D

0007445

01 SEGSEARCH

02 # THIS MODULE BASED ON A TARGET SEGMENT NUMBER WILL SCAN THE
 03 # SEGTABLE AND LOAD THE REQUIRED PAGES NEEDED TO EXECUTE THE
 04 # TARGET SEGMENT. THE PAGE MAP WILL BE UPDATED AS THE LOADING
 05 # PROGRESSES.

07 # ENTRY R6 = TARGET SEGMENT NUMBER
 08 # EXIT LOADED PAGING BUFFER.

```

0007445 01 000070 103060 -----
0007446 01 000071 031001 146672 SEG000
0007450 01 000073 031400 043056 CTSD
0007452
0007452 01 000075 104542 -----
0007453 01 000076 041102 -----
0007454 01 000077 003502 177400
0007456 01 000101 010510 -----
0007457 01 000102 006123 -----
0007460 01 000103 016605 000360
0007462 01 000105 005130 -----

0007463 01 000106 010604 -----
0007464 01 000107 042570 -----
0007465 01 000110 005106 -----
0007466 01 000111 055116 ----- 0007604
0007467 01 000112 024565 -----
0007470 01 000113 054071 ----- 0007561
0007471 01 000114 026565 -----
0007472 01 000115 030400 043076 CTSD
0007474 01 000117 024004 -----
0007475 01 000120 054021 ----- 0007516
0007476 01 000121 026004 -----
0007477 01 000122 034400 043076 CTSD
0007501
0007501 01 000124 140021 -----

0007502 01 000125 037020 126205 CTAPH -002- 38
0007504 01 000127 004123 ----- -001- 39
0007505 01 000130 050101 ----- -001- 40
0007506 01 000131 043705 ----- -001- 41
0007507 01 000132 046717 ----- -001- 42
0007510 01 000133 047000 ----- -001- 43
0007511 01 000134 154005 ----- 0007516

0007512
0007512 01 000135 073025 ----- -001- 47
0007513
0007513 01 000136 106000 ----- -001- 49

```

```

10 ZR R3
11 LAL RD,SEGTAB-2,RAO
12 LAL RD,PAGEMAP,RA1 # SET UP ADDRESS REGISTERS.
13 SEGSRCH
14 AN R6,2 # R6 = SEGMENT NO. PLUS ONE
15 LA R4,2(RAO) # OBTAIN SEGTABLE ENTRY. (RIGHT BROTHER NUMBER)
16 NI R4,R(RGTBRO)
17 RRN R4,S(RGTBRO)
18 LR R5,R3 # PREPARE TO EXTRACT MAP ENTRY.
19 LRM R6,R5,MSK(4,4) # EXTRACT WORD INDEX
20 SR R5,R6 # R5 NOW CONTAINS BIT NUMBER OF PAGE IN WORD
# POINTED TO BY R6.
22 RRN R8,4 # DIVIDE BY 16.
23 LX R7,R8(RA1) # GET MAP ENTRY.
24 SR R4,R6 # TEST IF R6 IS GREATER THAN TARGET PAGE.
25 BNC NOLoad # TAKE BRANCH IF PAGE NOT TO BE LOADED.
26 TBR R7,R5 # IS PAGE ALREADY IN
27 BC CLOSECK
28 SBR R7,R5
29 LL RD,PCB
30 TBN RD,S(OP)
31 BC REPOS # NO NEED TO OPEN AGAIN
32 SBN RD,S(OP) # FLAG OPEN EXECUTION
33 STL RD,PCB
34 REOPEN
35 L R1,N(LOGBLKAD)(RAO) # GET INDEX READY
36 # NEXT THE TAPE HANDLER MUST BE USED TO BRING IN PAGE.
37 OPEN PAGCLNT,(P,A,G,E,M,O,N),YES
38 BSA OPENTCB
39 VFD 5,PAGCLNT,1,0,1,0,2,0,3,((7+1)/2)+1,1,0,3,((7+1)/2)-1
40 VFD 8,ASC_P,8,ASC_A
41 VFD 8,ASC_G,8,ASC_E
42 VFD 8,ASC_M,8,ASC_O
43 VFD 8,ASC_N,8,ASC_
44 BC REPOS
45 # TAPE BUSY, STALL.
46 CALL WAIT
47 BSAI WXAII # SUBROUTINE WAIT IS IN PROGRAM CBLM
48 TAKEOUT 2 # 3E790279
49 LR 0,0

```

COMMON TAPE PAGING MONITOR

PR-1c955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM

ISSUE 05

PAGE 10

PAGING MONITOR

01:37:15 2/06/81 ****

LOAD PAGE ROUTINE

CPAGM W77D

```

0007514 01 000137 060000 ----- -001- 01 LR 0,0
0007515 01 000140 053764 ----- 0007501 02 B REOPEN
0007516 03 REPOS
0007516 01 000141 140021 ----- 04 L R1,1(RAO) # OBTAIN LOGICAL INDEX INTO FILE
0007517 01 000142 07:947 ----- 05 POSITION PAGCLNT # POSITION TAPE FOR READ.
0007520 01 000143 005100 ----- -002- 06 BSAI RXERR # SUBROUTINE RXERR IS IN PROGRAM CTAPH
0007521 01 000144 156000 ----- -001- 07 VFD 5,PAGCLNT 4,POSITION 1,1 1,0 5,0
0007522 01 000145 153006 ----- 08 BPAX RO
0007523 01 000146 153064 ----- 0007530 09 B READBEGIN # EXECUTE READ MACRO. INITIATE DATA TRANSFER.
0007524 01 000147 173025 ----- 10 B ABORTPAGE # I/O ERROR ABORT PAGMON.
0007525 01 000150 106000 ----- -001- 11 CALL WAIT # WAIT A SCAN. TAPE FUNCTIONS ARE SLOW.
0007526 01 000151 060000 ----- 12 BSAI XWAIT # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007527 01 000152 053767 ----- 0007516 13 TAKEOUT 2 # 3E790279
0007528 01 000150 106000 ----- -001- 14 LR 0,0
0007529 01 000151 060000 ----- -001- 15 LR 0,0
0007530 01 000152 053767 ----- 16 B REPOS

0007530 20 READBEGIN
0007530 01 000153 130400 043076 CTSD 21 LL RO,PCB+M(WRDCNT)
0007532 01 000155 003402 000037 22 NI RO,-M(WRDCNT) # ZERO WRDCNT (WORD COUNT)
0007534 01 000157 034400 043076 CTSD 23 STL RO,PCB+M(WRDCNT)
0007536 24 READSTAT
25 # INITIATE READ OF PAGE.
0007536 01 000161 173047 ----- -002- 26 READ PAGCLNT,PAGEUN
0007537 01 000162 004200 007700 0007700 -001- 27 BSAI RXERR # SUBROUTINE RXERR IS IN PROGRAM CTAPH
0007541 01 000164 156000 ----- 28 ADDR PAGEUN,PAGCLNT+E(7)+READ+E(3)
0007542 01 000165 153006 ----- 0007550 29 BPAX RO
0007543 01 000166 153044 ----- 0007607 30 B PRECLOSECK # CLOSE FILE
0007544 01 000167 173025 ----- 31 B ABORTPAGE
0007545 01 000170 106000 ----- -001- 32 CALL WAIT # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007546 01 000171 060000 ----- 33 BSAI XWAIT # 3E790279
0007547 01 000172 053767 ----- 0007536 -001- 34 TAKEOUT 2
-001- 35 LR 0,0
-001- 36 LR 0,0 # MUST WAIT FOR POSITION.
0007547 01 000172 053767 ----- 0007536 37 B READSTAT

0007550 41 PRECLOSECK
42 STATST PAGCLNT
0007550 01 000173 173047 ----- -002- 43 BSAI RXERR # SUBROUTINE RXERR IS IN PROGRAM CTAPH
0007551 01 000174 063000 ----- -001- 44 VFD 5,PAGCLNT 4,STATST 1,1 1,0 5,0
0007552 01 000175 156000 ----- 45 BPAX RO
0007553 01 000176 153006 ----- 0007561 46 B CLOSECK
0007554 01 000177 153033 ----- 0007607 47 B ABORTPAGE
0007555 01 000200 173025 ----- -001- 48 CALL WAIT # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007555 01 000200 173025 ----- 49 BSAI XWAIT

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

01:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 11

PAGING MONITOR

0:37:15 2/06/81 ****

LOAD PAGE ROUTINE

CPAGM

W77D

```

0007556
0007556 01 000201 106000 ----- -001- 02 TAKEOUT 2 # 3E790279
0007557 01 000202 006000 ----- -001- 03 LR 0,0
0007560 01 000203 053770 ----- 0007550 04 B PRECLOSECK

08 # CONTINUE LOADING OF PAGES.
09 CLOSECK
0007561
0007561 01 000204 146570 ----- 10 STX R7,R8(RA1) #UPDATE MAP
0007562 01 000205 004156 ----- 11 SN R6,2 # R6 = SEGMENT NO. MINUS ONE
0007563 01 000206 020066 ----- 12 CR R3,R6 # CHECK IF ENTIRE TREE HAS BEEN LOADED.
0007564 01 000207 054003 ----- 13 BC CLOSEFILE
0007565 01 000210 004461 ----- 14 RN R3,1
0007566 01 000211 053664 ----- 15 B SEGRCH # INCREMENT CURRENT PAGE COUNT.

0007567
0007567 01 000212 130400 043076 CTS0 19 CLOSEFILE
0007571 01 000214 024004 ----- 20 LL RD,PCB
0007572 01 000215 055045 ----- 21 TBN RD,S(OP) # CHECK IF OPEN WAS REQUIRED
0007572 01 000215 055045 ----- 22 BNC GETOPAGE # NO CLOSE REQUIRED
23 # TERMINATE TAPE OPERATION
24 CLOSE PAGCLNT
0007573 01 000216 073047 ----- -002- 25 BSAI RXQR # SUBROUTINE REQR IS IN PROGRAM CTAPH
0007574 01 000217 005300 ----- -001- 26 VFD 5,PAGCLNT 4,CLOSE 1,1 1,0 5,0
0007575 01 000220 156000 ----- 27 BPAX RD
0007576 01 000221 153036 ----- 28 B GETOPAGE1 # TRANSFER TO APPROPRIATE PAGE ADDRESS.
0007577 01 000222 153007 ----- 29 B ABORTPAGE1
0007600 30 CALL WAIT
0007600 01 000223 173025 ----- -001- 31 BSAI WXAIT # SUBROUTINE WAIT IS IN PROGRAM CBLM
0007601 32 TAKEOUT 2 # 3E790279
0007601 01 000224 104000 ----- -001- 33 LR 0,0
0007602 01 000225 006000 ----- -001- 34 LR 0,0
0007603 01 000226 053764 ----- 35 B CLOSEFILE

0007604
39 NOLOAD
40 # A SPECIFIC PAGE NEED NOT BE LOADED. CLEAR MAP BIT AND
41 # CONTINUE RESOLVING PAGING BUFFER.
0007604 01 000227 125545 ----- 42 ZBR R7,R5
0007605 01 000230 053754 ----- 0007561 43 B CLOSECK

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 12

PAGING MONITOR

0:37:15 2/06/81 ****

LOAD PAGE ROUTINE

CPAGM W77D

```

0007606 01 000231 104542 ----- 01 ABORTPAGE1
0007606 01 000231 104542 ----- 02 AN R6,2 #ADJUST SEG. NO. FOR PRINT OUT
0007607 01 000232 104157 ----- 03 ABORTPAGE
0007607 01 000232 104157 ----- 04 SN R6,1 #ADJUST SEG NO. FOR P0
0007610 01 000233 003000 ----- 05 ZR R0
0007611 01 000234 034400 043076 CTSD 06 RD,PCB #CLEAR FOR ABORT.
0007613 01 000236 037020 127462 CTAPH -001- 07 CALL BLKDATA
0007613 01 000236 037020 127462 CTAPH -001- 08 BSA BLKDATA
0007615 01 000240 106160 ----- 09 LR R7,R0 #PRESENT LOGICAL TAPE POSITION
0007616 01 000240 106160 ----- 10 PRINT PACTION=A,FMT=(WRD(P,A,G,E,H,O,N),WRD(A,B,T),DEC,DEC)

-001- 12 # MESSAGE PROTOTYPE
-001- 13 # A mm PAGEMON ABT dddd dddd
0007616 01 000241 073053 ----- -002- 14 BSAI PXMRY #SUBROUTINE PMRY IS IN PROGRAM TTYAPP
0007617 01 000242 101200 ----- -002- 15 VFD 1,1 2,0 1,0 3,1 1,0 1,1 1,0 2,0 1,0 3,0
0007620 01 000243 021104 ----- -002- 16 VFD 4,TTYO 4,TTYO 4,TTYO_DEC 4,TTYO_DEC
0007621 01 000244 021042 ----- -002- 17 VFD 4,TTYO 4,TTYO 4,TTYO 4,TTYO
0007622 01 000245 011210 ----- TTYTBL -002- 18 VFD 5,2 11,PXAGENON
0007623 01 000246 000001 ----- TTYTBL -002- 19 VFD 5, 11,AXBT
-001- 20 NOTE THE VARIABLE PORTION OF THE OUTPUT MESSAGE TO BE PRINTED IS
CONTAINED IN GENERAL REGISTERS R6,R7,
22 CPAGM OW 0(247) #3E790279
-001- 23 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000247 *****

0007624 01 000247 106000 ----- 26 TAKEOUT 3 #3E790279
0007624 01 000247 106000 ----- -001- 27 LR 0,0
0007625 01 000250 006000 ----- -001- 28 LR 0,0
0007626 01 000251 006000 ----- -001- 29 LR 0,0
0007627 01 000252 003401 042660 LAYOUT 30 LD,HGAREA+TBLsiz(HGAREA)-MSFCVLV-ENTRYSIZ(HGAREA)
0007631 01 000252 003401 042660 LAYOUT 31 EOW #3E790279
-001- 32 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000253 *****

0007631 35 HIMODE L HG,R0 #GET HG REGISTER TO MSFC CALLING LEVEL MINUS
ONE LEVEL
0007631 01 000254 013000 ----- -001- 37 MIS 0
0007632 01 000255 032523 ----- -002- 38 VFD 8,HGXT 8,ROXF
0007633 01 000256 056443 ----- 39 RETURN 3 #SIGNAL END OF MSF
0007633 01 000256 056443 ----- -001- 40 BTSAGN 3
41 #END OF LOAD MODULE

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 13

1-206-345 7017

PAGING MONITOR
CLIENT RETURN MODULE

0:37:15 2/06/81 ****

CPAGM W77D

```

0007634      01 GETPAGE1
02 CPAGM 0W 0(257) # 3E790279
-001- 03 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000257 *****

0007634      06 CALL TEMPINH_ # FORCE ONE BASE LOOP BEFORE TRANSFER TO
                                CLIENT AFTER TAPE CLOSE

0007634 01 000257 137020 147320 BLHMA -001- 08 BSA TEMPINH_
0007636 01 000261 173025 ----- -001- 09 CALL WAIT
0007637 01 000261 173025 ----- -001- 10 BSAI WAIT # SUBROUTINE WAIT IS IN PROGRAM CBLM
                                EOV # 3E790279
                                -001- 12 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000261 *****

0007637      15 GETPAGE
16 # ALL TAPE BLOCKS HAVE BEEN LOADED AND CONTROL WILL NOW
17 # BE PASSED TO PAGING AREA FOR EXECUTION.
18 TAKEOUT 2 # 3E790279
-001- 19 LR 0,0
-001- 20 LR 0,0
21 LAL R0,PCB,RAD # GET HIGH BITS OF ADDRESS.
22 GN R1,0
23 IRM R1,R0,M(RTNH4)
24 HN R1,0
25 L R1,M(RTNL16)(RAD) # GET LOW 16 BITS
26 HN R1,1
27 L R0,M(RDSAVE)(RAD)
28 L R1,M(RTSAVE)(RAD) #RESTORE R0 AND R1
29 ZBS N(OP)(RAD),S(OP) # END OF PAGING OPERATION.
30 RETURN
-001- 31 BTSAG
32 TAKEOUT 19 # 3E790279
-001- 33 LR 0,0
-001- 34 LR 0,0
-001- 35 LR 0,0
-001- 36 LR 0,0
-001- 37 LR 0,0
-001- 38 LR 0,0
-001- 39 LR 0,0
-001- 40 LR 0,0
-001- 41 LR 0,0
-001- 42 LR 0,0
-001- 43 LR 0,0
-001- 44 LR 0,0
-001- 45 LR 0,0
-001- 46 LR 0,0
-001- 47 LR 0,0
-001- 48 LR 0,0
-001- 49 LR 0,0

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 14

c03

PAGING MONITOR

0:37:15 2/06/81 ****

CLIENT RETURN MODULE

CPAGM W77D

0007676 01 000321 006000 -----
0007677 01 000322 006000 -----

-001- 01 LR 0,0
-001- 02 LR 0,0

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 15

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE UNLOADING ROUTINE

CPAGM W77D

0007700

01 PAGEUN

02 # THE INTERRUPT HAS LOADED 1 BLOCK OF TAPE INTO THE
 03 # I/O BUFFER. THIS CODE WILL UNPACK THE DATA AND TRANSFER
 04 # THE DATA TO THE PAGING BUFFER. ASSUME THE BLOCK CONTAINS
 05 # CONTIGUOUS DATA AND PROGRAM

```

0007700          09      BEGIN      ( )
0007700 01 000323 131000 045266 LAYOUT      10      LAL      RD,I,OBUFF,RAD
0007702 01 000325 041341 -----            11      LA      R14,I(RAD)      # OBTAIN THE ADDRESS AND LENGTH SPECS.
0007703 01 000326 041361 -----            12      LA      R15,I(RAD)
0007704 01 000327 040101 -----            13      LA      R0,I(RAD)
0007705 01 000330 016456 177760            14      LRM      R2,R14,M(RCRDLG)
0007707 01 000332 010444 -----            15      RRM      R2,S(RCRDLG)      # R2 = TOTAL WORDS TO MOVE
0007710 01 000333 030500 043076 CTSO        16      LL      R4,PCB+N(WRDCNT)
0007712 01 000335 003502 177740            17      NI      R4,M(WRDCNT)
0007714 01 000337 010505 -----            18      RRM      R4,S(WRDCNT)      # WORD COUNT IN R4 (WORDS ALREADY MOVED)
0007715 01 000340 043404 -----            19      LAX      R0,R4(RA1)      # ADJUST RA1
0007716 01 000341 043004 -----            20      LAX      R0,R4(RAD)      # ADJUST RAD
0007717          21
0007717 01 000342 006062 -----            22      LR      R3,R2
0007720 01 000343 005064 -----            23      SR      R3,R4
0007721          24      IF      R3 >= A,MAXWDS+1 THEN LI R3,MAXWDS
0007721 01 000344 006003 -----            -003- 25      LR      R0,R3
0007722 01 000345 003400 154357 MASACS        -003- 26      SI      R0,MAXWDS+1
0007724 01 000347 055003 -----            -001- 27      BNC     IFS124
0007725 01 000350 003461 023420 MASACS        -001- 28      LI      R3,MAXWDS
0007727          -001- 29      IFS124      #
0007727 01 000352 106003 -----            30      LR      R0,R3
0007730          31      CALL     MOVST      # RD = WORDS TO MOVE THIS TIME
0007730 01 000353 073033 -----            -001- 32      BSAI     MMOVST      # TRANSFER TO PAGING BUFFER
0007731 01 000354 101503 -----            33      AR      R4,R3      # SUBROUTINE MOVST IS IN PROGRAM CTSYSD
0007732 01 000355 031400 043076 CTSO        34      LAL      R0,PCB,RA1      # RA = WORDS MOVED SO FAR
0007734          35      IF      R4 = R2 THEN ZR R4
0007734 01 000357 020102 -----            -002- 36      CR      R4,R2
0007735 01 000360 055002 -----            -001- 37      BNC     IFS128
0007736 01 000361 003100 -----            -001- 38      ZR      R4      #
0007737          -001- 39      IFS128
0007737 01 000362 110513 -----            40      RLN      R4,S(WRDCNT)
0007740 01 000363 002500 177740            41      STM      R4,N(WRDCNT)(RA1),M(WRDCNT)      # SAVE WRDCNT
0007740          42      CPAGM     OW      O(365)      # 12277
0007740          -001- 43      NOTE     ***** THE FIRST ADDRESS OVERWRITTEN IS 000365 *****

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 16

E03

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE UNLOADING ROUTINE

CPAGM W77D

```

0007742                                01      IF      R4  = 0 THEN RETURN 1  ANOTHER TRANSFER REQUIRED
0007742 01 000365 014104 -----      -002- 02      TZ      R4
0007743 01 000366 034002 -----      -001- 03      BC      IFS132
0007744 01 000367 036461 -----      -002- 04      BTSAN 1
0007745                                -001- 05 IFS132
0007745                                06      EOW      # 12277
                                -001- 07      NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000367 *****
                                10      RETURN 0      # DONE
0007745 01 000370 156460 -----      -001- 11      BTSAN 0

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 17

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGM W77D

```

0007746      01 HAPCHK
02 # THIS ROUTINE WILL CHECK TO SEE IF A GIVEN PAGE (RD) IS
03 # ALREADY IN THE PAGING BUFFER OR NOT.
04
0007746      05 # ENTRY CONDITION
06
0007746      07 # RD IS SET TO PAGE NUMBER.
08
0007746      09 # EXIT CONDITION
10
0007746      11 # RETURN 1 PAGE IS RESIDENT AT THIS TIME.
12
0007746      13 # RETURN 0 PAGE IS NOT RESIDENT AT THIS TIME.

0007746      17 BEGIN
0007746 01 000371 171420 ----- -002- 18 HA
-001- 19 CPAGM OW 0(372) # 12416
-001- 20 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000372 *****

0007747 01 000372 037000 114507 0114507 -001- 23 CPATCH2 BGNP 0(400) # 12416
-001- 24 BL XXX143
-001- 25 NOTE CPATCH2 'CSECT'
-001- 26 NOTE ***** PATCH AREA BEGINS AT 000400 *****

0114507 -001- 29 XXX143 PATCHAREA
0114507 04 000400 130420 043076 CTSO 30 LL R1,PCB+H(OP)
0114511 04 000402 024024 ----- 31 TBN R1,S(OP)
0114512 32 IF CF = 1 THEN RETURN 0
0114512 04 000403 055002 ----- 0114514 -001- 33 BNC IFS145
0114513 04 000404 056440 ----- -002- 34 BTSAGN 0
0114514 -001- 35 IFS145
0114514 04 000405 104017 ----- 36 SN RD,1
0114515 04 000406 031420 043056 CTSO 37 LAL R1,PAGMAP,RA1 # PAGE MAP ADDRESS
0114517 38 ENDP # 12416
0114517 04 000410 037000 007751 0007751 -001- 39 XXX147
-001- 40 NOTE ***** LAST PATCH ADDRESS USED IS 000411 *****
-001- 41 NOTE ***** NUMBER OF PATCH WORDS USED IS 10 (DECIMAL) *****

0007751 -001- 44 XXX147 OMCONTINUE
0007751 45 TAKEOUT 1
0007751 01 000374 106000 ----- -001- 46 LR 0,0
0007752 47 EOW # 12416
-001- 48 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000374 *****

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE . 18

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGH W77D

0007752 01 000375 016440 000360	01	LRM	R2,R0,MSK(4,4)	# SELECT WHICH WORD OF MAP IS TO BE INTERROGATED.
0007754 01 000377 006200 -----	03	LR	R8,R0	
0007755 01 000400 005202 -----	04	SR	R8,R2	# REMOVE WORD DATA FROM PAGE NUMBER.
0007756 01 000401 010444 -----	05	RRN	R2,4	# R2 NOW REPRESENTS AN INDEX INTO MAP.
0007757 01 000402 043462 -----	06	LAX	R3,R2(RA1)	# GET WORD FROM MAP
0007760 01 000403 024470 -----	07	TBR	R3,R8	# IS THE PAGE IN MEMORY.
0007761 01 000404 003000 -----	08	ZR	R0	
0007762 01 000405 030000 -----	09	ICF	R0,0	# GET RETURN CODE IN R0
0007763	10	RETURN		
0007763 01 000406 056420 -----	-001- 11	BTSAG		

COMMON TAPE PAGING MONITOR

PR-1c955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGH ISSUE 05 PAGE 19

PAGING MONITOR

0:37:15 2/06/81 ****

PAGE MAP LOOK UP ROUTINE

CPAGM

W77D

01 OUT IOD ALW=2 PRI=3 CHL=MTC
02 PAGEMON ABT #AA BB
03 T"02"
04 THE PAGING MONITOR WAS ABORTED BY THE TAPE HANDLER.
05 T"03"
06 aa = S\$EGMENT BEING PAGED AT POINT OF ABORT (DECIMAL).
07 \$sbb = Present logical tape position (decimal).
08 T"04"
09 X IF TAPE ERROR MESSAGES PRECEDED THE PAGING MONITOR ABORT, THEY SHOULD
10 BE CONSULTED FIRST TO IDENTIFY THE PARTICULAR TAPE TROUBLE. OTHERWISE,
11 RETRY THE PAGING FUNCTION. IF THE FAILURE PERSISTS, RUN TAPE DIAGNOSTICS. X
12 SPACE 1
13 T"05"
14 \$SPR-1C955-01 CPAGM #SCOMMON \$PAGING \$MONITOR \$PROGRAM
15 .IODEND
16 CPAGM MAXSIZE 0,407

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 20

0:37:15 2/06/81 *****

CPAGM W77D

```

-002- 01          PBEGIN PROG=CPAGH                      TRNO=12277  SERNOB=63014
02          # FIX BUG IN PAGING OPERATION WHICH DETECTS END OF BLOCK
03          #THIS PATCH COORDINATES WITH TC 63036 AND REQUIRES TC 63047 TO WORK PROPERLY
04          TCEND
-001- 05          NOTE *****

```

-001- 05 NOTE *****

```

-002- 12      PBEGIN PROG=CPAGH                      TRNO=12416  SERNOB=62124
      13 # CHANGE SUBROUTINE MAPCHK TO CHECK FOR PAGING IN PROGRESS IN
      14 #ADDITION TO SEARCHING FOR THE PRESENCE OF A GIVEN SEGMENT.
      15 # PREVENTS A PREMATURE INDICATION OF LOADED NONRESIDENT CODE
      16 #FOR THE TTY HANDLER AND OTHER CLIENTS.

```

16 #FOR THE TTY HANDLER AND OTHER CLIENTS.
17

19 TCEND
-001- 20 NOTE *****

27 END

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 21

0:37:15 2/06/81 ***

[illegible]

CPAGM W77D

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 22

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
CYSUB	V	CLR_MRDS	4-D4	

CPAGM W77D

```

t.<(+18
  !S+);
~\
,X_>?
!#0'm" ab
cdefghi n<+
+ jklmnopqr"
m!z=-stuvv
xyz+L[20012
3456789+J]#
-(abcdefghi
  )jklmno
pqr \ s
tuvvxyz
0123456789

```

T CONLC

LIBNUM=14

'n

```

z
fe<hplix
vsfsg
~al
ix>k
j0#b'd" ab
cdefghi n<+
+ jklmnopqr"
m!z=-stuvv
xyz+L[20012
3456789+J]#
-(ABCDEFghi
  )JKLMNO
pqr \ s
TUVVXYZ
0123456789

```

T CONSC

LIBNUM=14

0007355	L	CPAGM	1-31
0111432	L	CPATCH	1-36
0112562	L	CPATCH1	1-37
0114107	L	CPATCH2	1-38 18-24

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 23

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES
0115073	L	CPATCH3	1-39	
0121236	L	CPATCH7	1-40	
	U	CTAPH		

CPAGM W77D

```

t.<(+|8
  |8*)
~ /
,X_>?
: #B'="
n<(+
+
H)2E--
+ L[ ]=012
3456789+1-1]
-ABCDEF01
  >JKLMNO
PQR \ S
TUVWXYZ
0123456789

```

```

      T DELLC      LIBNUM=14
      O U EOS
      O J ESS2      1-10
      1 J ESS2E      1-09
0007355 L EXPAGREQ 7-01 3-01
      1 J FIELD      1-09
0007413 L FINDPAGE 8-20 7-27
0007637 L GETOPAGE 14-15 9-20, 12-22
0007634 L GETOPAGE1 14-01 12-28
0000065 A HGXT      LIBNUM=10 13-38
      LAYOUT V HGAREA 4-09 13-30, 13-30, 13-30
      LAYOUT V E_OBUF 4-10 16-10
'ILLEGAL CON
DITIONAL IN
THE IF MACRO'T IERROR1
'DATA > 0 OR
DATA < 0 IS
MEANINGLESS
'USE DATA "
= 0' T IERROR2
'TWO CONSTAN
TS ARE BEING
COMPARED IN
IF MACRO' T IERROR3
'AN ITEM WAS

```

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 24

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGH	W770
COMPARED TO SOMETHING D THER THAN A CONSTANT'	T	IFERROR4				
'DESTINATION OF AN = STA TEMENT IS A CONSTANT'	T	IFERROR5				
'ATTEMPTING TO SET ITEM = TO SOMETHI NG OTHER THA N A CONSTANT'	T	IFERROR6				
'ITEM MAY ON LY USE THE = AND = COND ITIONALS'	T	IFERROR7				
0007727	L	IFS124	16-29	16-27		
0007737	L	IFS128	16-39	16-37		
0007745	L	IFS132	17-05	17-03		
0114514	L	IFS145	18-35	18-33		
0000001	A	LOGBLKAD	5-48	M=20 S=0 N=1 CL=3	10-35	
'SEGTABENT'	T	LONAM_LOGBLK				
'PCB'	T	LONAM_OP				
'HEADER'	T	LONAM_RCRDLG				
'SEGTABENT'	T	LONAM_RGTBRO				
'PCB'	T	LONAM_RTNH4				
'PCB'	T	LONAM_RTML16				
'PCB'	T	LONAM_RDSAVE				
'PCB'	T	LONAM_RTSAVE				
'ENTAB'	T	LONAM_SEGNO				
'PCB'	T	LONAM_WRCNT				
CTVTAB	V	MZOVST				
14 P	MZOVSTX_XCSY					
SUB						
0007746	L	MAPCHK	18-01	3-02		
0007420	L	MAPSET	9-01			
0007433	L	MASKGEN	9-23	9-25		
MASACS	V	MAXWDS	4-11	16-26, 16-28		

4. (18
15*)
-/_

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGH ISSUE 05 PAGE 25

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	M77D
<pre> #X_? : #a' = " ab cdefghi n<+ + jklmnopqr n?z = -stuvw xyz = {p}012 3456789+ ,] # -(ABCDEFghi JKLMNO pqr \ s TUVWXYZ 0123456789 T MICODETR LIBNUM=10 V MOVST 4-05 '3E790279' T MRNO V MSFCLVL 4-01 13-30 L NLOAD 12-39 10-25 A OP 5-04 M=1 S=4 N=0 CL=3 3-03, 10-30, 10-32, 12-21, 14-29, 18-30, 18-31 V OPENTCB 10-38 10-38 </pre>						
<pre> {.<(AON XS*) -S/ #X_>? : #a'L" ab cdefghi n<+ + jklmnopqr n?z = -stuvw xyz = {p}012 3456789+ ,] # -(BCLEFGHI JKLMNO pqr \ s LLLWYZ 0123456789 T OPTR A ORG_000247 13-23 A ORG_000257 14-03 A ORG_000365 16-43 A ORG_000372 18-20 A ORG_000400 18-30 O U P X PXAGEMON 13-18 13-18 V PXMRT LIBNUM=14 13-14 CTVTAB </pre>						

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 26

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
14	P	PXMRYX_XTTA				
		PP		LIBNUM=14		
0000001	A	PAGCLNT		LIBNUM=5		
CTSD	V	PAGEMAP	4-07	9-11, 9-28, 10-12, 18-37		
0007700	L	PAGEUN	16-01	3-05, 11-28		
0007377	L	PAGMON	8-01	3-04		
0007367	L	PAGHUST	7-21	7-17		
CTSD	V	PCB	4-08	7-12, 8-10, 10-29, 10-33, 11-21, 11-23, 12-20, 13-06, 14-21, 16-16, 16-34, 18-30		
TTTAPP	V	PMRY	13-14			
0000004	A	POSITION		LIBNUM=5		
0007550	L	PRECLOSECK	11-41	11-30, 12-04		
CTVTAB	V	RREQR		LIBNUM=14		
14	P	RREQRX_XCTAP				
		H		LIBNUM=14		
14	P	RAO		LIBNUM=3		
				7-12, 7-13, 7-14, 7-25, 7-26, 8-10, 8-11, 8-12, 8-18, 8-19, 10-11, 10-15, 10-35, 11-04, 14-21, 14-23, 14-27, 14-28, 14-29, 16-10, 16-11, 16-12, 16-13, 16-20		
16	P	RA1		LIBNUM=3		
				7-15, 8-15, 8-17, 9-11, 9-18, 9-27, 9-31, 10-12, 10-23, 12-10, 16-19, 16-34, 16-41, 18-37, 19-06		
0000000	A	RCRDLG	5-30	W=14 S=4 N=0 CL=3		
0000001	A	READ		LIBNUM=5		
0007530	L	READBEGIN	11-20	11-09		
0007536	L	READSTAT	11-24	11-37		
0007501	L	REOPEN	10-34	11-02		
0007516	L	REPOS	11-03	10-31, 10-44, 11-16		
CTAPH	V	REQR	11-06			
0000000	A	RGTBRO	5-47	W=10 S=10 N=0 CL=3		
						10-16, 10-17
' LOGICAL BL						
' OCK ADDRESS						
' ON PAGEMON F						
' ILE'	T	RMK_LOGBLKAD				
' '	T	RMK_OP				
' LENGTH OF						
' RECORD'	T	RMK_RCRDLG				
' RIGHT BROT						
' HER (SEGMENT						
' NO.)'	T	RMK_RGTBRO				
' RETURN ADDR						
' HIGH BITS'	T	RMK_RTNHA				
' RETURN ADDR						
' LOW BITS'	T	RMK_RTNL16				
' RD SAVE ARE						
' A'	T	RMK_RDSAVE				
' R1 SAVE ARE						
' A'	T	RMK_R1SAVE				
' SEGMENT NO						
' COUNT OF NO	T	RMK_SEGNO				
' RDS MOVED'	T	RMK_WRCNT				
' 0000000 A RTNHA			5-03	W=4 S=0 N=0 CL=3		
						7-25, 8-18, 14-23

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 27

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CPAGM	W77D
0000001	A	RTNL16	5-06	W=20 S=0 N=1 CL=3	7-26, 8-19, 14-25	
	O	R RO		LIBNUM=3	7-13, 8-11, 9-11, 9-24, 9-26, 9-28, 9-29, 10-11, 10-12, 10-29, 10-30, 10-32, 10-33, 11-08, 11-21, 11-22, 11-23, 11-29, 11-45, 12-20, 12-21, 12-27, 13-05, 13-06, 13-09, 13-30, 14-21, 14-23, 14-27, 16-10, 16-13, 16-19, 16-20, 16-25, 16-26, 16-30, 16-34, 16-36, 19-01, 19-03, 19-08, 19-09	
0000123	A	ROXF		LIBNUM=10	13-38	
0000002	A	ROSAVE	5-07	W=20 S=0 N=2 CL=3	7-13, 8-11, 14-27	
	1	R R1		LIBNUM=3	7-14, 8-12, 9-31, 10-35, 11-04, 14-22, 14-23, 14-24, 14-25, 14-26, 14-28, 18-30, 18-31, 18-37	
0000003	A	RISAVE	5-08	W=20 S=0 N=3 CL=3	8-12, 14-28	
	16	R R14		LIBNUM=3	8-13, 16-11, 16-14	
	17	R R15		LIBNUM=3	8-14, 16-12	
	2	R R2		LIBNUM=3	7-12, 7-15, 7-16, 7-22, 8-10, 8-15, 8-18, 8-23, 9-12, 9-14, 9-15, 9-18, 9-29, 16-14, 16-15, 16-22, 16-36, 19-01, 19-04, 19-05, 19-06, 19-18, 9-19, 9-26, 9-27, 10-10, 10-18, 12-12, 12-14, 16-22, 16-23, 16-25, 16-26, 16-30, 16-33, 19-06, 19-07, 16-16, 16-17, 16-18, 16-19, 16-20, 16-23, 16-33, 16-36, 16-38, 16-40, 16-41, 17-02	
	3	R R3		LIBNUM=3	10-18, 10-19, 10-20, 10-26, 10-28, 12-42	
	4	R R4		LIBNUM=3	8-23, 8-24, 8-25, 9-12, 9-13, 10-14, 10-24, 12-11, 12-12, 13-02, 13-04	
	5	R R5		LIBNUM=3	10-23, 10-26, 10-28, 12-10, 12-42, 13-09	
	6	R R6		LIBNUM=3	9-13, 9-14, 9-19, 9-24, 9-25, 10-19, 10-20, 10-22, 10-23, 12-10, 19-03, 19-04, 19-07	
	7	R R7		W=10 S=10 N=0 CL=3	7-22, 8-23, 8-24	
	10	R R8				
0000000	A	SEGNO	6-05	W=10 S=10 N=0 CL=3	7-22, 8-23, 8-24	
0007445	L	SEGSEARCH	10-01			
0007452	L	SEGSRCH	10-13			
SEG000	V	SEGTAB	4-12			
0000236	A	SERNO_062124	21-13			
0000232	A	SERNO_063014	21-02			
*AXBT	T	SPWRD	21-02			
0000011	A	STATST		LIBNUM=5	11-44	
0000000	A	SV_REG				
BLMMA	V	TEMPINH	4-02		14-08	
0116774	L	TFAPCH2	1-42			
0600000	L	TPATCH	1-44			
0000232	A	TR_012277	21-02			
0000236	A	TR_012416	21-13			
0000202	A	TR_12277	16-43			
0000217	A	TR_12416	18-20		18-30	
0000160	A	TR_3E790279	13-23		14-03	
0007747	L	TRORG	13-23		14-03, 16-43, 18-20	
	O	TTYAPP				
0000002	A	TTYO		LIBNUM=12	13-16, 13-17	
0000004	A	TTYO_DEC		LIBNUM=12	13-16	
0000002	A	TTYOCT	13-18			
	O	TTYTBL				
CTVTAB	V	WXAIT		LIBNUM=14	10-47, 11-12, 11-33, 11-49, 12-31, 14-10	
	14	P WXAITX_XCBLM		LIBNUM=14		
CBLM	V	WAIT	4-03			

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM ISSUE 05 PAGE 28

CDS

PATCH HISTORY

0:37:15 2/06/81 ****

VALUE T NAME

DEF/REF

ATTRIBUTES AND REFERENCES

CPAGM

W770

0000000 A WRDENT
1 J 3ACCS=05 W=13 S=5 N=0 CL=3
1=09

11-21, 11-22, 11-23, 16-16, 16-17, 16-18, 16-40, 16-41

NO FLAG(S) FOUND IN THIS ASSEMBLY

COMMON TAPE PAGING MONITOR

PR-1C955-50

0:37:15 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CPAGM

ISSUE 05 PAGE 29

